Notice of Allowability	Application No.	Applicant(s)
	10/677,681	SONG ET AL.
	Examiner	Art Unit
	Ngoclan T. Mai	1742
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED i or other appropriate comm IGHTS. This application is	n this application. If not included
1. This communication is responsive to <u>12/3/04</u> .		
2. The allowed claim(s) is/are 10-22.		
3. The drawings filed on <u>02 December 2003</u> are accepted by	the Examiner.	
 4. Acknowledgment is made of a claim for foreign priority unall a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		or (f).
2. Certified copies of the priority documents have		on No.
3. Copies of the certified copies of the priority doc	cuments have been received	d in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		a with the manufacture application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file ENT of this application.	a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give	tted. Note the attached EXAs reason(s) why the oath or	AMINER'S AMENDMENT or NOTICE OF declaration is deficient.
CORRECTED DRAWINGS (as "replacement sheets") must	t be submitted.	
(a) I including changes required by the Notice of Draftsperson	on's Patent Drawing Review	(PTO-948) attached
1) hereto or 2) to Paper No./Mail Date	•	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		in the Office action of
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in th	84(c)) should be written on the header according to 37 CFI	e drawings in the front (not the back) of R 1.121(d).
7. DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F	It of BIOLOGICAL MATE	RIAL must be submitted Note the
	•	
Attachment(s) . Notice of References Cited (PTO-892)		
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		ormal Patent Application (PTO-152)
Information Disclosure Statements (PTO-1449 or PTO/SB/08	Paper No./N	mmary (PTO-413), Mail Date Amendment/Comment
Paper No./Mail Date	. —	
. Examiner's Comment Regarding Requirement for Deposit of Biological Material		Statement of Reasons for Allowance
	9.	•
		Ngoclan T. Mai Primary Examiner Art Unit: 1742

Application/Control Number: 10/677,681

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

It is known in the art to form nuclear fuel pellet by compacting and heating nuclear fuel with refractory metal such as tungsten, see US Patent Nos. 3,276,867, 3,573,036, and 3,579,390. Of which US patent 3,573,036 teaches sintering a body formed of a mixture uranium dioxide and refractory metal or refractory metal alloy in a non-oxidizing atmosphere to a desired density at a temperature above 1700 °C. thereby producing hypostoichiometric urania and contacting the resulting cermet with wet hydrogen at a temperature in the range of 1000° C. –1500 °C. until substantially stoichiometry has been attained. There is no teaching or suggestion of the process having the process as claimed.

US patent 4,052,330 disclosed making compacted pellets of uranium oxide with or without one or more additive such as TiO₂ by a process having a preheating step, a sintering step and a reducing step, and cooling step in a controlled atmosphere comprising a combination of hydrogen and carbon dioxide gas. See abstract. This process is employed to reduce impurities and contamination from uranium oxide and produce sintered uranium oxide compact having oxygen to uranium ratio from 1.98:1 to 2.10:1. There is no teaching or suggestion of a tungsten network or forming liquid refractory oxide or tungsten oxide network in the sintered body.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ngoclan T. Mai whose telephone number is (571) 272-1246. The examiner can normally be reached on 9:30-6:00 PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

My Con Men Ngoclan T. Mai Primary Examiner Art Unit 1742

n.m.